

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/009966

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04R3/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04R H04S G10H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 168 296 A (YAMAHA CORP) 2 January 2002 (2002-01-02) abstract column 25, line 25 - column 45, line 14	1-16
A	WO 99/26454 A (SRS LABS INC) 27 May 1999 (1999-05-27) abstract page 16, line 25 - page 17, line 20; figures 12A-D	1-16
A	WO 03/028405 A (AUBAUER ROLAND ; SIEMENS AG (DE); KLINKE STEFANO AMBROSIOUS (DE)) 3 April 2003 (2003-04-03) abstract page 7, line 9 - page 12, line 11; figures 4-6	1-16
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

3 December 2004

Date of mailing of the international search report

21/12/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 068 489 A (NAGATA YUICHI ET AL) 30 May 2000 (2000-05-30) column 2, line 60 - column 3, line 43 column 4, line 11 - line 17 -----	2
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 01, 28 February 1995 (1995-02-28) & JP 06 289882 A (VICTOR CO OF JAPAN LTD), 18 October 1994 (1994-10-18) abstract; figure 1 -----	2
A	US 5 930 373 A (SHASHOUA MEIR ET AL) 27 July 1999 (1999-07-27) -----	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/009966

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1168296	A	02-01-2002	JP 2001337680 A JP 2002006852 A DE 60106680 D1 EP 1168296 A2 US 2001049994 A1	07-12-2001 11-01-2002 02-12-2004 02-01-2002 13-12-2001
WO 9926454	A	27-05-1999	AU 1072099 A WO 9926454 A1	07-06-1999 27-05-1999
WO 03028405	A	03-04-2003	WO 03028405 A1 EP 1428411 A1	03-04-2003 16-06-2004
US 6068489	A	30-05-2000	JP 3114587 B2 JP 9116358 A CN 1153368 A , B KR 270436 B1 SG 54378 A1	04-12-2000 02-05-1997 02-07-1997 01-11-2000 16-11-1998
JP 06289882	A	18-10-1994	NONE	
US 5930373	A	27-07-1999	AU 6850298 A DE 69810914 D1 DE 972426 T1 EP 0972426 A1 ES 2143969 T1 WO 9846044 A1 JP 3478401 B2 JP 2000505277 T TW 381403 B	30-10-1998 27-02-2003 29-06-2000 19-01-2000 01-06-2000 15-10-1998 15-12-2003 25-04-2000 01-02-2000